

Anti-Human CD8 Cd8a Monoclonal Antibody mFluor540 Conjugated, Flow Validated

Catalog Number: FC02236-mFluor540

Introduction

The antibody recognizes CD7, a human T and NK lymphocyte antigen of 40 kDa. The CD7 antigen is expressed throughout T lymphocyte differentiation, and is present on 85% to 90% of peripheral blood T lymphocytes. In normal individuals, the CD7 antibody reacts with all CD8+ lymphocytes, approximately 90% of CD4+ lymphocytes, and most NK lymphocytes. CD7 is weakly reactive with monocytes and does not react with granulocytes or B lymphocytes. It is expressed on 50% of thymocytes in suspension. In leukemias, the CD7 antigen is present on the majority of T lymphoid lineages.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development by CapricoBio or are reported in the literature.

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 5ul of this product is sufficient for staining of 1 million cells in a 100ul staining volume or 100ul of whole blood. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About Cd8a

CD7 (Cluster of Differentiation 7) is a protein that in humans is encoded by the CD7 gene. This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

Overview

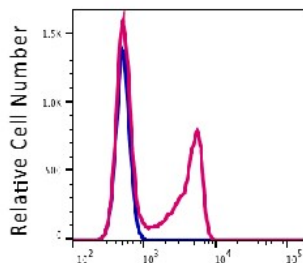
Product Name	Anti-Human CD8 Cd8a Monoclonal Antibody mFluor540 Conjugated, Flow Validated
Reactive Species	Human
Description	Boster Bio Anti-Human CD8 Cd8a Monoclonal Antibody mFluor540 Conjugated, Flow Validated (Catalog# FC02236-mFluor540). Tested in Flow Cytometry application(s). This antibody reacts with Human.
Conjugate	mFluor540
Application	Flow Cytometry
Clonality	Monoclonal Clone: OKT8
Formulation	PBS pH 7.2, 0.2% (w/v) BSA, 0.09% (w/v) sodium azide
Storage Instructions	Store at 2-8°C. Avoid repeated freeze-thaw cycles.

Host	Mouse
Uniprot ID	P01732

Technical Details

Immunogen	Human peripheral blood T lymphocytes
Predicted Reactive Species	Bovine, Canine
Isotype	IgG2a,k
Form	Liquid, in PBS, pH7.2, <0.09% NaN ₃ and 0.2% (w/v) BSA
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity column chromatography
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>User needs to optimize the dilution ratio for this antibody.</p>

Anti-Human CD8 Cd8a Monoclonal Antibody mFluor540 Conjugated, Flow Validated (FC02236-mFluor540) Images



CD8 mFluor 540, with FMO control

Lymphocytes gated PBMCs stained with mFluor540 conjugated anti-human CD8 (clone OKT8, red histogram). PBMCs lymphocytes with IFMO staining control (blue histogram)

1 Publications Citing This Product

1. PubMed ID: 25816072, Xu Y, Tan X, Wang D, Wang W, Li Y, Wu M, Chen S, Wu Y, Tan C. Int J Mol Med. 2015 Jun;35(6):1501-10. Doi: 10.3892/ijmm.2015.2154. Epub 2015 Mar 24. Elevated Survivin Expression In Peripheral Blood Mononuclear Cells Is Central To Collateral Formati...

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